

Notice of Allowability

Application No.

09/488,373

Examiner

Devona E. Faulk

Applicant(s)

MORITA, TORU

Art Unit

2615

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 5/12/2006.
2. ☒ The allowed claim(s) is/are 1-9 and 11-18.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 5/12/2006, with respect to the 103 rejections of claims 1- 8, and 13-14 have been fully considered and are persuasive. The rejections of claims 1-8,13-14 have been withdrawn.
2. Claims 1-8,13 and 14 are allowed.
3. Claims 9,11,12,15-18 were indicated as allowable and remain in allowable form.
4. Claim 10 is cancelled.

Allowable Subject Matter

5. Claims 1-9,11-18 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art Fujimoto et al. (US 6,238,291) discloses a cartridge, game machine and bi-directional communication type game system. Prior art Wu (US 4,571,680) discloses an electronic music pace-counting shoe. Prior art Uchiyama et al. (5,018,428) discloses an electronic musical instrument in which musical tones are generated on the basis of pitches extracted from an input waveform signal. Prior art Mitra (US, 5,594,894) discloses a microcontroller with programmable post-scalar for pulse width modulation. Prior art, Usami et al. (EP 0 463 409 A2) discloses a musical tone waveform generation apparatus. Prior art, Shiba et al. (EP 0 376 342) discloses a data processing apparatus for electronic musical instruments. Prior art, Yamato et al. (US 6,115,036) disclose a video game/ videographic program editing apparatus with program halt and data transfer

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including a down counter, a CPU and an interrupt controller. Prior art Hanson (US 5,132,955) discloses a method and apparatus for synchronizing multiple CD players include a down counter under the control of the CPU. Prior art Furuhashi et al. (US 5,789,690) discloses an electronic sound source having reduced spurious emissions. Regarding claims 1-7,9,15-18, the prior art or combination thereof fails to disclose or make obvious wherein the timing of interrupt corresponds to a rise or fall of a sound waveform of said sound data and discrepancy between the timing of said period of said CPU interrupt signal and the timing of the rise and fall of the sound waveform is substantially eliminated by said dynamically altering said period of said CPU interrupt signal to T/n .

Additionally, regarding claims 9,15-18 the prior art or combination thereof fails to disclose or make obvious an electronic means causing said CPU controlling a down counter based of the period of sound data. Therefore the prior art of combination thereof fails to disclose or make obvious an electronic device, an entertainment system, and a method for generating clear playback sound in an electronic device as claimed.

Claims 8,11,12 are allowed due to dependency on claims 1 and 9.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devona E. Faulk whose telephone number is 571-272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848.

The Art Unit location of your application in the USPTO has changed. To aid in correlating any papers for this application, all further correspondence regarding this application should be directed to Art Unit 2615. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DEF


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SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600